

SPREAD SPECTRUM BASED MULTICHANNEL MODULATION FOR
ULTRA WIDEBAND COMMUNICATIONS

Abstract of the Disclosure

A spread spectrum based multichannel modulation UWB transceiver for indoor operation is provided according to some embodiments. The spread spectrum based multichannel are orthogonal each other and allow for an operation in parallel. The UWB system can also avoid the interference with WLAN 802.11a at the same environment. The UWB transceiver of the present invention can transmit and receive the scalability chip data rates from 650 Mcps up to 7.15 Gcps.